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28-OCT-09                                 GEORGIA DEPARTMENT OF TRANSPORTATION                                 PROB. NO. LL01
16:13:47                     PRECONSTUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN
                                                  LIVE LOAD CASE PROGRAM
                                                 REVISED: JUNE 26, 2008

                    36.00' CURB-TO-CURB; 5 BEAMS; 140.00' AVERAGE SPAN


 BRIDGE                    CENTER LINE    # OF    REACTION     MAXIMUM #     # OF      COLUMN    SKEW
 WIDTH      X1       X2     DISTANCE      BEAMS    FORCE       OF TRUCKS    COLUMNS     WIDTH   ANGLE
 39.250    3.625    3.625     19.625        5      68.706         3            1        8.000       0


  D1    D2    D3    D4    D5    D6    D7    D8    D9   D10   D11   D12   D13   D14   D15   D16   D17   D18   D19   D20
 3.625 8.000 8.000 8.000 8.000


 XCOL1    XCOL2    XCOL3    XCOL4    XCOL5
19.625


LIVE LOAD CASE #  1           1 TRUCKS

     *     *
     *     *
     *     *
    ***   ***
     *     *
----------------------------------------
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I

   BEAM     WHEEL FRACTION     P-LOAD
     1          1.2500         85.882
     2          0.7500         51.530
     3          0.0000          0.000
     4          0.0000          0.000
     5          0.0000          0.000

LIVE LOAD CASE #  2           2 TRUCKS

     *     *   *     *
     *     *   *     *
     *     *   *     *
    ***   *** ***   ***
     *     *   *     *
----------------------------------------
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I

   BEAM     WHEEL FRACTION     P-LOAD
     1          1.2500         85.882
     2          1.5000        103.059
     3          1.2500         85.882
     4          0.0000          0.000
     5          0.0000          0.000


LIVE LOAD CASE #  3           3 TRUCKS

     *     *   *     *   *     *
     *     *   *     *   *     *
     *     *   *     *   *     *
    ***   *** ***   *** ***   ***
     *     *   *     *   *     *
----------------------------------------
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I

   BEAM     WHEEL FRACTION     P-LOAD
     1          1.2500         85.882
     2          1.5000        103.059
     3          1.7500        120.236
     4          1.2500         85.882
     5          0.2500         17.177

LIVE LOAD CASE #  4           1 TRUCKS

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                               *     *
                              ***   ***
                               *     *
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     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I

   BEAM     WHEEL FRACTION     P-LOAD
     1          0.0000          0.000
     2          0.0000          0.000
     3          0.0000          0.000
     4          0.7500         51.530
     5          1.2500         85.882


LIVE LOAD CASE #  5           2 TRUCKS

                     *     *   *     *
                     *     *   *     *
                     *     *   *     *
                    ***   *** ***   ***
                     *     *   *     *
----------------------------------------
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I

   BEAM     WHEEL FRACTION     P-LOAD
     1          0.0000          0.000
     2          0.0000          0.000
     3          1.2500         85.882
     4          1.5000        103.059
     5          1.2500         85.882

LIVE LOAD CASE #  6           3 TRUCKS

           *     *   *     *   *     *
           *     *   *     *   *     *
           *     *   *     *   *     *
          ***   *** ***   *** ***   ***
           *     *   *     *   *     *
----------------------------------------
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I

   BEAM     WHEEL FRACTION     P-LOAD
     1          0.2500         17.177
     2          1.2500         85.882
     3          1.7500        120.236
     4          1.5000        103.059
     5          1.2500         85.882


LIVE LOAD CASE #  7           1 TRUCKS

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                  *     *
                  *     *
                 ***   ***
                  *     *
----------------------------------------
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I

   BEAM     WHEEL FRACTION     P-LOAD
     1          0.0000          0.000
     2          0.3750         25.765
     3          1.2500         85.882
     4          0.3750         25.765
     5          0.0000          0.000

LIVE LOAD CASE #  8           2 TRUCKS

        *     *   *     *
        *     *   *     *
        *     *   *     *
       ***   *** ***   ***
        *     *   *     *
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     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I

   BEAM     WHEEL FRACTION     P-LOAD
     1          0.6250         42.941
     2          1.6250        111.647
     3          1.3750         94.471
     4          0.3750         25.765
     5          0.0000          0.000


LIVE LOAD CASE #  9           3 TRUCKS

        *     *   *     *   *     *
        *     *   *     *   *     *
        *     *   *     *   *     *
       ***   *** ***   *** ***   ***
        *     *   *     *   *     *
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     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I

   BEAM     WHEEL FRACTION     P-LOAD
     1          0.6250         42.941
     2          1.6250        111.647
     3          1.5000        103.059
     4          1.6250        111.647
     5          0.6250         42.941


LIVE LOAD CASE # 10           2 TRUCKS

             *     *   *     *
             *     *   *     *
             *     *   *     *
            ***   *** ***   ***
             *     *   *     *
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     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I

   BEAM     WHEEL FRACTION     P-LOAD
     1          0.0000          0.000
     2          1.2500         85.882
     3          1.5000        103.059
     4          1.2500         85.882
     5          0.0000          0.000



LIVE LOAD CASE # 11           2 TRUCKS

     *     *                   *     *
     *     *                   *     *
     *     *                   *     *
    ***   ***                 ***   ***
     *     *                   *     *
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     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I

   BEAM     WHEEL FRACTION     P-LOAD
     1          1.2500         85.882
     2          0.7500         51.530
     3          0.0000          0.000
     4          0.7500         51.530
     5          1.2500         85.882


LIVE LOAD CASE # 12           3 TRUCKS

     *     *   *     *         *     *
     *     *   *     *         *     *
     *     *   *     *         *     *
    ***   *** ***   ***       ***   ***
     *     *   *     *         *     *
----------------------------------------
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I
     I       I       I       I       I

   BEAM     WHEEL FRACTION     P-LOAD
     1          1.2500         85.882
     2          1.5000        103.059
     3          1.2500         85.882
     4          0.7500         51.530
     5          1.2500         85.882

28-OCT-09                                 GEORGIA DEPARTMENT OF TRANSPORTATION                                    PROB. NO. LL01
16:13:47                     PRECONSTUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN
                                          SUMMARY OF THE LIVE LOAD CASE PROGRAM
                                                 REVISED:  JUNE 26, 2008

                    36.00' CURB-TO-CURB; 5 BEAMS; 140.00' AVERAGE SPAN


 BRIDGE                    CENTER LINE    # OF    REACTION     MAXIMUM #     # OF      COLUMN    SKEW
 WIDTH      X1       X2     DISTANCE      BEAMS    FORCE       OF TRUCKS    COLUMNS     WIDTH   ANGLE
 39.250    3.625    3.625     19.625        5      68.706         3            1        8.000     0


  D1    D2    D3    D4    D5    D6    D7    D8    D9   D10   D11   D12   D13   D14   D15   D16   D17   D18   D19   D20
 3.625 8.000 8.000 8.000 8.000


 XCOL1    XCOL2    XCOL3    XCOL4    XCOL5
19.625

            NO. OF
            TRUCKS  BEAM 1    BEAM 2    BEAM 3    BEAM 4    BEAM 5    BEAM 6    BEAM 7    BEAM 8    BEAM 9    BEAM 10

 LL CASE  1    1    85.882    51.530     0.000     0.000     0.000     0.000     0.000     0.000     0.000     0.000

 LL CASE  2    2    85.882   103.059    85.882     0.000     0.000     0.000     0.000     0.000     0.000     0.000
 LL CASE  3    3    85.882   103.059   120.236    85.882    17.177     0.000     0.000     0.000     0.000     0.000

 LL CASE  4    1     0.000     0.000     0.000    51.530    85.882     0.000     0.000     0.000     0.000     0.000

 LL CASE  5    2     0.000     0.000    85.882   103.059    85.882     0.000     0.000     0.000     0.000     0.000

 LL CASE  6    3    17.177    85.882   120.236   103.059    85.882     0.000     0.000     0.000     0.000     0.000

 LL CASE  7    1     0.000    25.765    85.882    25.765     0.000     0.000     0.000     0.000     0.000     0.000

 LL CASE  8    2    42.941   111.647    94.471    25.765     0.000     0.000     0.000     0.000     0.000     0.000

 LL CASE  9    3    42.941   111.647   103.059   111.647    42.941     0.000     0.000     0.000     0.000     0.000

 LL CASE 10    2     0.000    85.882   103.059    85.882     0.000     0.000     0.000     0.000     0.000     0.000

 LL CASE 11    2    85.882    51.530     0.000    51.530    85.882     0.000     0.000     0.000     0.000     0.000

 LL CASE 12    3    85.882   103.059    85.882    51.530    85.882     0.000     0.000     0.000     0.000     0.000


 FOR PIER PROGRAM INPUT

61LL 1 1 85882 51529     0     0     0     0     0
61LL 2 2 85882103059     0 85882     0     0     0
61LL 3 3 85882103059     0120235     0 85882 17176
61LL 4 1     0     0     0     0     0 51529 85882
61LL 5 2     0     0     0 85882     0103059 85882
61LL 6 3 17176 85882     0120235     0103059 85882
61LL 7 1     0 25764     0 85882     0 25764     0
61LL 8 2 42941111647     0 94470     0 25764     0
61LL 9 3 42941111647     0103059     0111647 42941
61LL10 2     0 85882     0103059     0 85882     0
61LL11 2 85882 51529     0     0     0 51529 85882
61LL12 3 85882103059     0 85882     0 51529 85882
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